



孕龍科技股份有限公司
ZeroPlus Technology Co., Ltd.

SPECIFICATION

MODEL: B09012-LAP-PS/2-M

PART NO : _____

VERSION : V1.33

Approver		Check	Design
GM	PM		

Customer Confirm

* Please fax the file to
ZeroPlus Technology after
signing .

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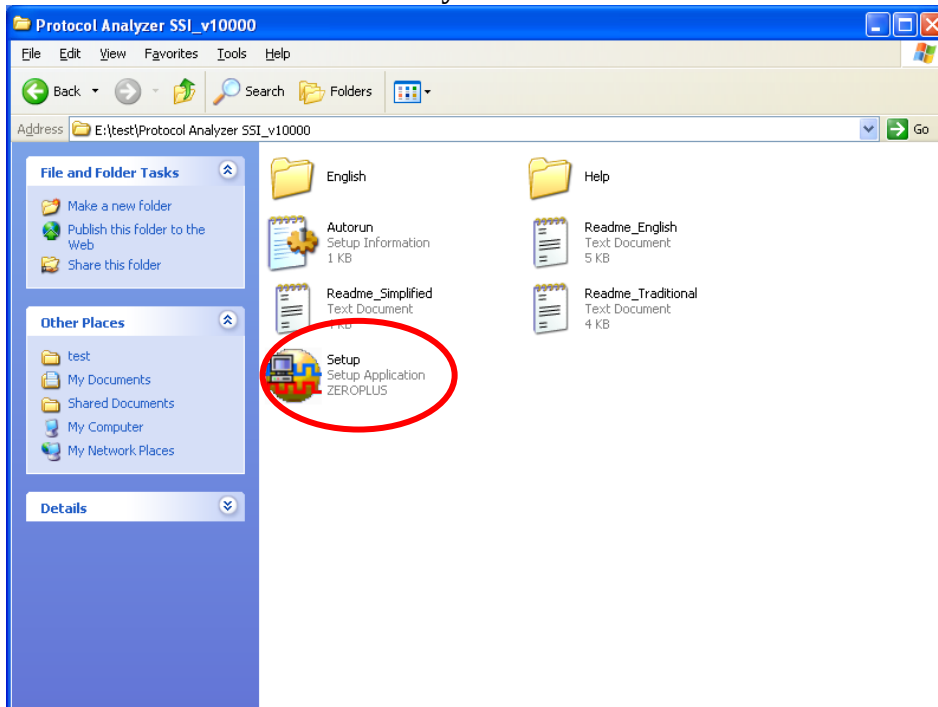
1 Software Installation

Please install the software as the following steps:

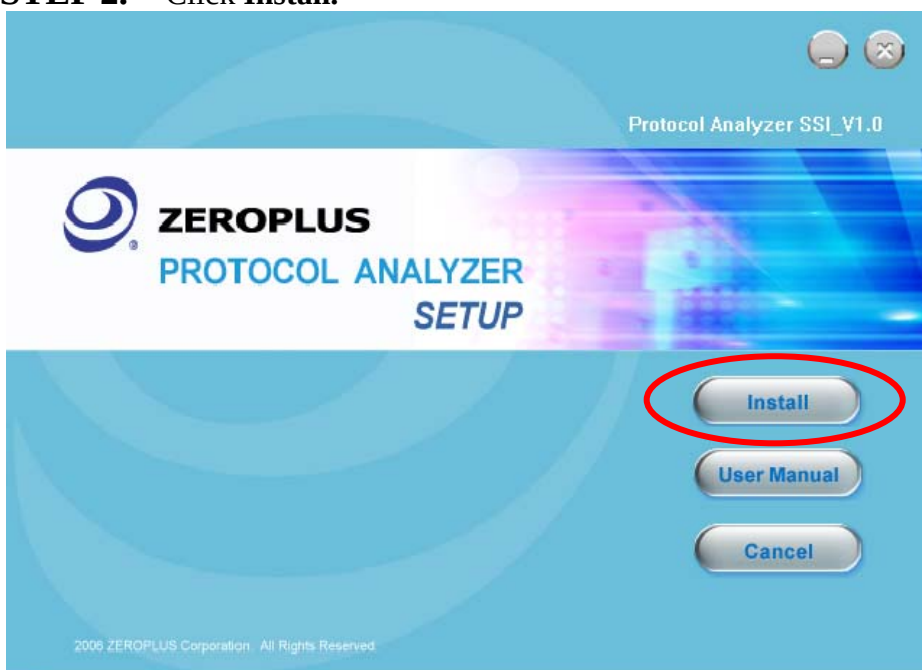
※ Remark: 1. The installation steps for all protocol analyzers are the same; you can complete the installation by following procedures. Following is an example on how to install protocol analyzer SSI.

※ Remark: 2. We won't have additional notice for you, when there is any modification of the module specification. If there is some unconformity caused by the module version upgrade, users should take the module software as the standard.

STEP 1. Install Protocol Analyzer Module.

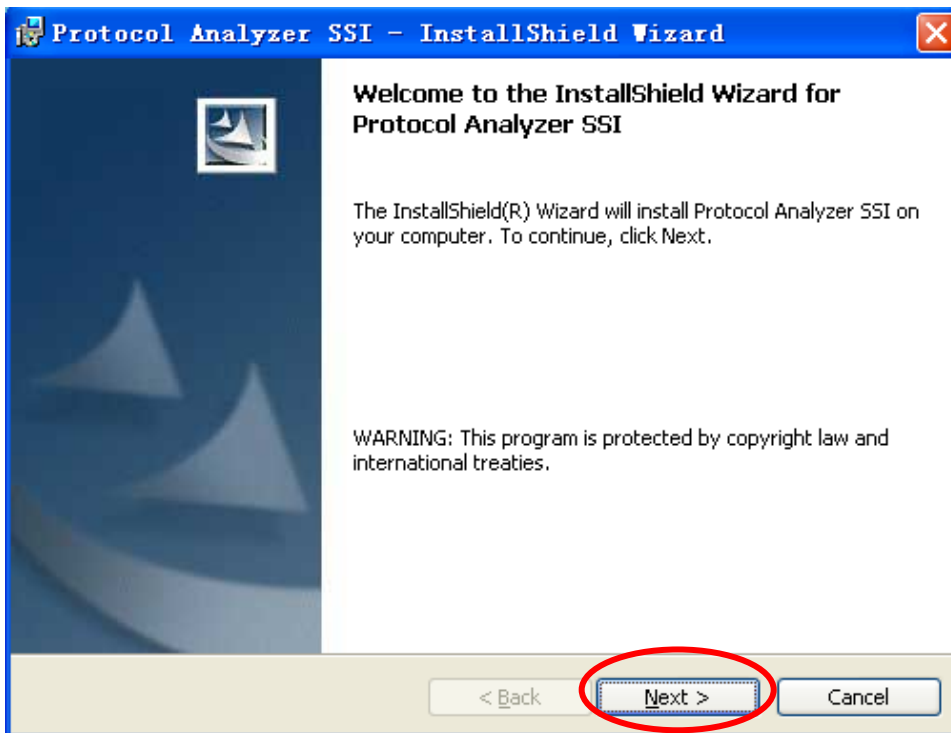


STEP 2. Click Install.

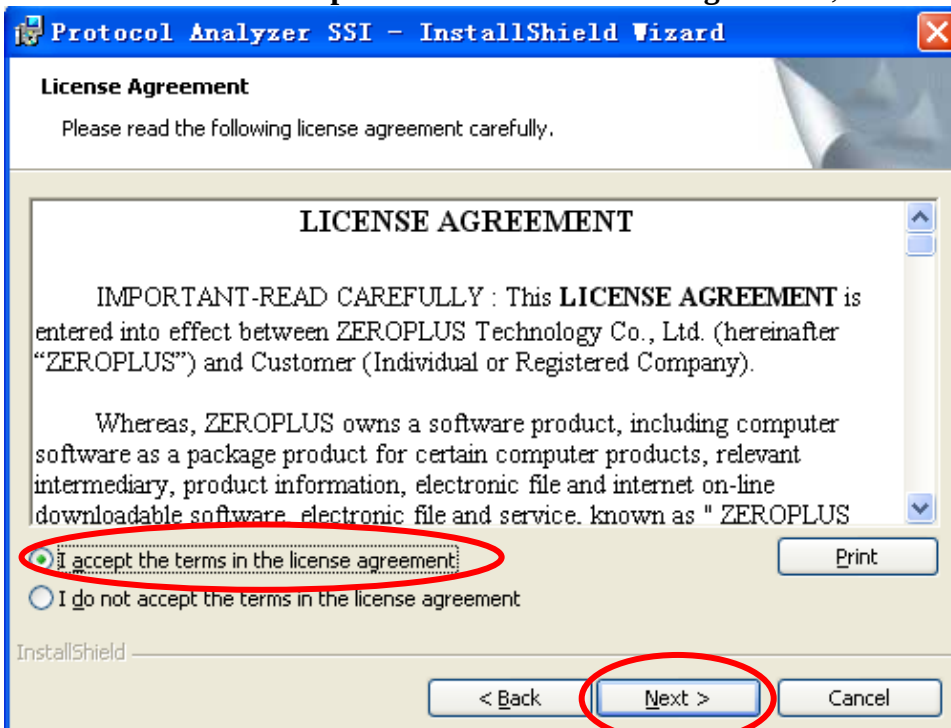




STEP 3. Click Next.



STEP 4. Select **I accept the terms in the license agreement**, and then press Next.





STEP 5. Fill in users' information in the below dialog box and click **Next**.

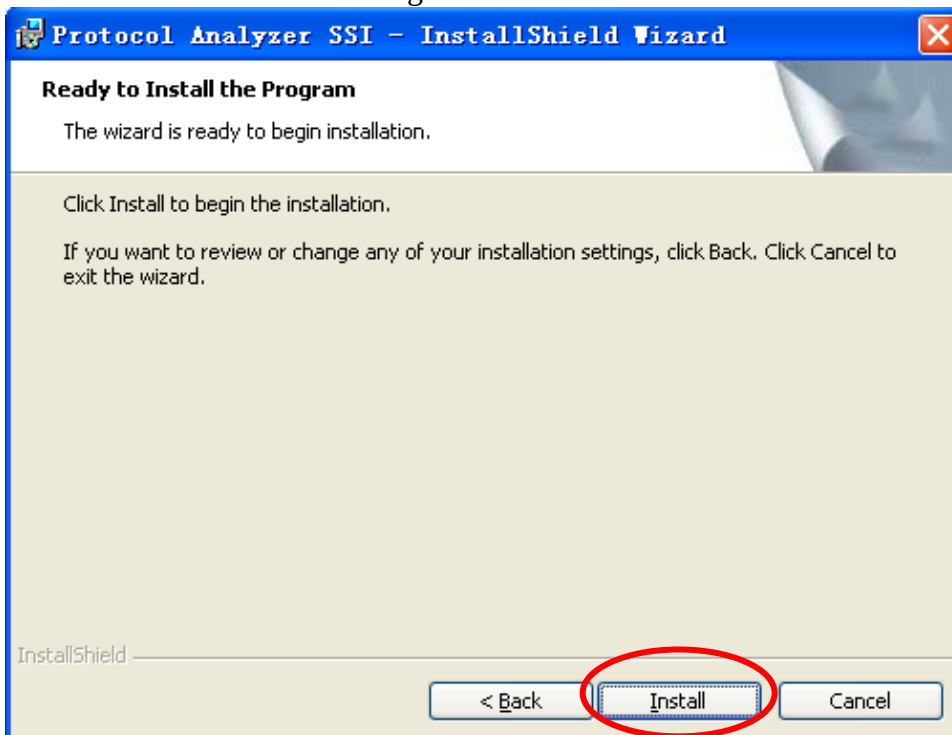
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a "Customer Information" section with the instruction "Please enter your information." Below this, there are two text input fields: "User Name:" with the text "sunshine" and "Organization:" with the text "zeroplus". Underneath, there is a section "Install this application for:" with two radio button options: "Anyone who uses this computer (all users)" (which is selected) and "Only for me (sunshine)". At the bottom, there are three buttons: "< Back", "Next >" (which is circled in red), and "Cancel".

STEP 6. First, select **Complete** and then click **Next**.

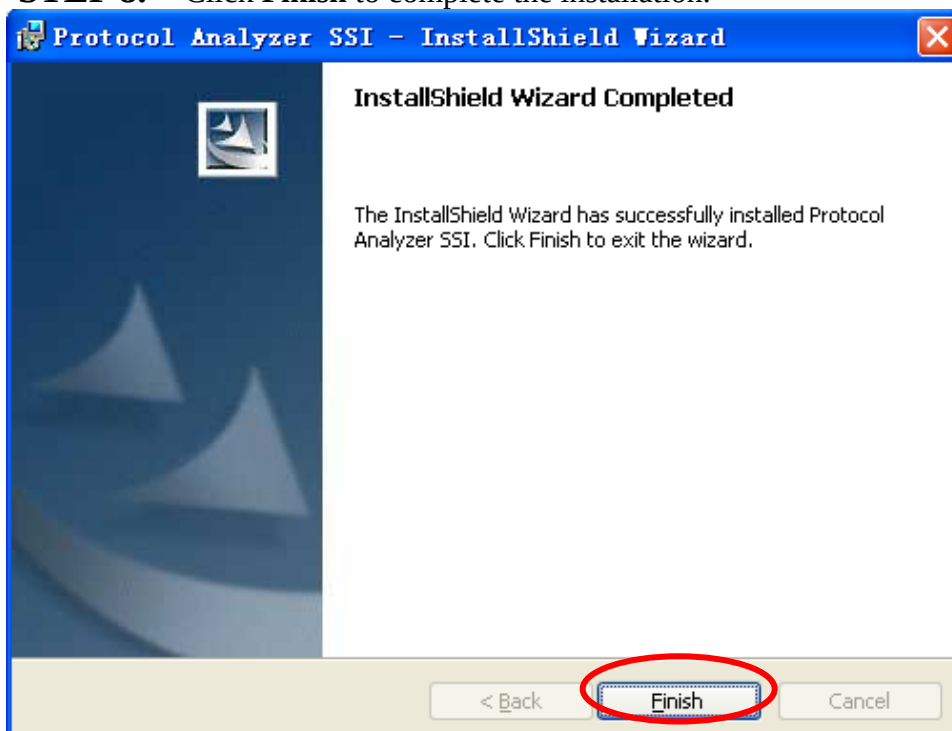
The dialog box is titled "Protocol Analyzer SSI - InstallShield Wizard". It has a "Setup Type" section with the instruction "Choose the setup type that best suits your needs." Below this, there is a section "Please select a setup type." with two radio button options: "Complete" (which is selected) and "Custom". The "Complete" option has a description: "All program features will be installed. (Requires the most disk space.)". The "Custom" option has a description: "Choose which program features you want installed and where they will be installed. Recommended for advanced users." At the bottom, there are three buttons: "< Back", "Next >" (which is circled in red), and "Cancel".



STEP 7. Click **Install** to begin the installation.



STEP 8. Click **Finish** to complete the installation.

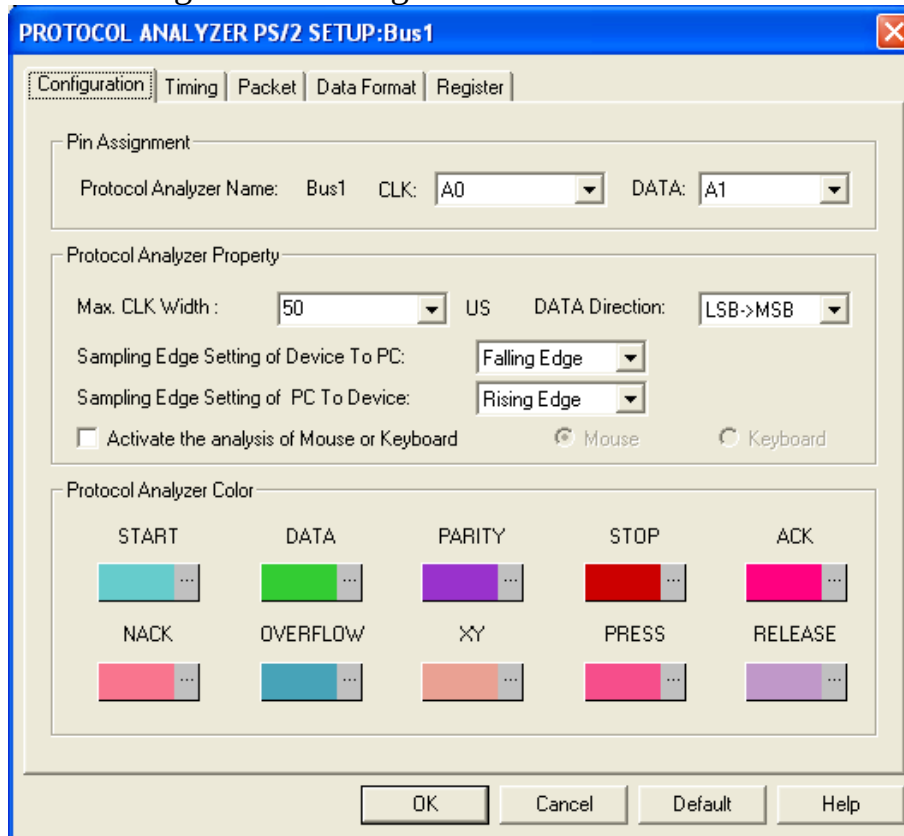




2 User Interface

Please refer to below images to select options of setting **PS/2** Module.

PS/2 Configuration Dialog Box



Pin Assignment:

PS/2: There are two channels for PS/2 as signal lines, herein, it marks channel name and the sign for channel selection.

CLK channel: The default is A0.

DATA channel: The default is A1.

Protocol Analyzer Property:

Max. CLK Width: The default is 50US.

DATA Direction: The default is LSB->MSB.

Sampling Edge Setting of Device to PC: The default is Falling Edge.

Sampling Edge Setting of PC to Device: The default is Rising Edge.

Activate the analysis of Mouse or Keyboard: When users select the **Activate the analysis of Mouse or Keyboard**, you can analyze the Mouse Signal or Keyboard Signal.

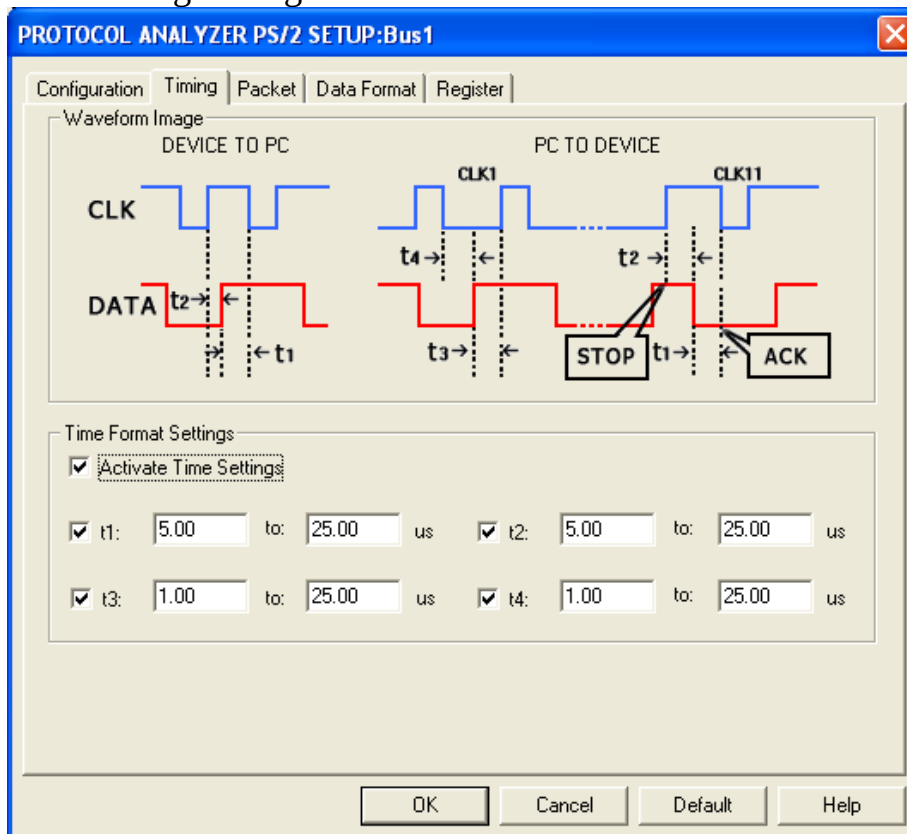
Mouse: When users select the **Mouse**, you can analyze the Mouse Signal.

Keyboard: When users select the **Keyboard**, you can analyze the Keyboard Signal.

Protocol Analyzer Color: The **Protocol Analyzer Color** can be varied by users.



PS/2 Timing Dialog Box



Waveform Image:

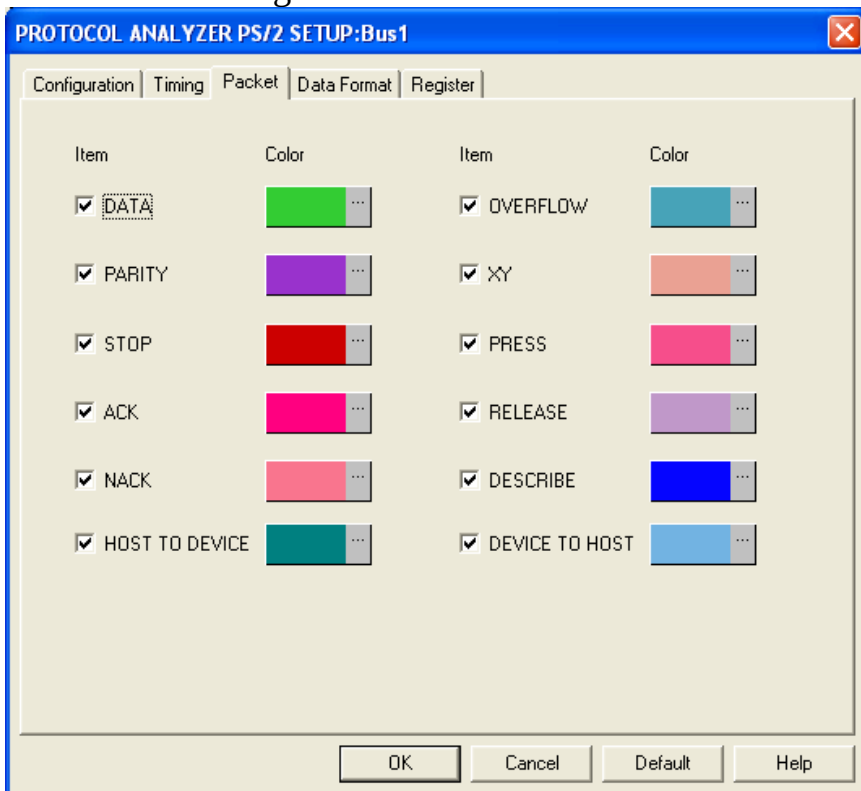
Describe for which position the set time is.

Time Format Settings:

It can set the time after activating time settings. The set time will be taken as the condition of judging decoding. For example, decoding START, firstly judge whether the condition of START is set up or not, then judge whether t1 (It is from the falling edge of CLK to the either edge of DATA) and t2 (It is from the rising edge of CLK to the either edge of DATA) are in the range of time settings of t1 and t2. When both of the two conditions are coincident, the package segment of START can come into existence. The conditions of t3 and t4 are the same with t1 and t2.

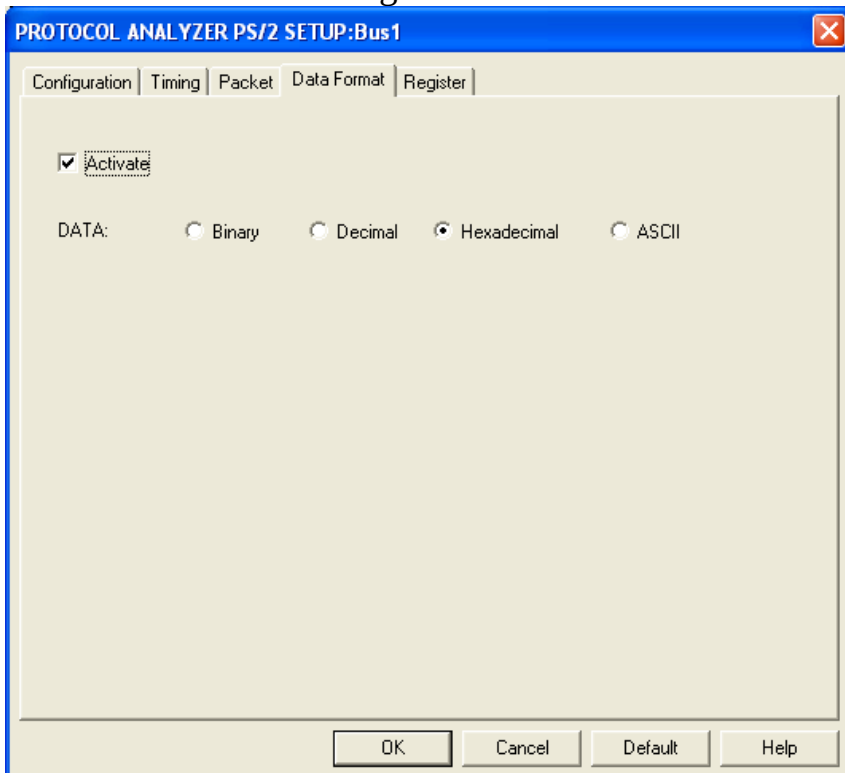


PS/2 Packet Dialog Box



In the packet part, users can set the items and colors as users' requirements.

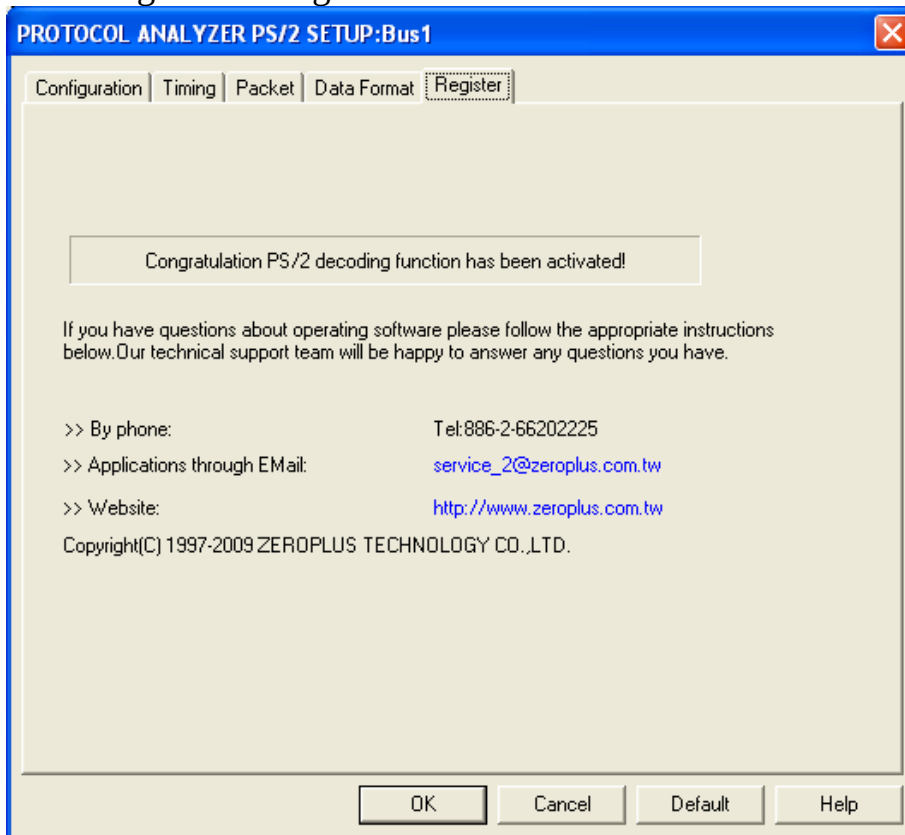
PS/2 Data Format Dialog Box



Users can set the Data Format of the DATA as their requirements. When selecting the option, Activate, the data formats are decided by the settings in the Protocol Analyzer; when not selecting the option, Activate, the data formats are decided by the settings in the main program.



PS/2 Register Dialog Box

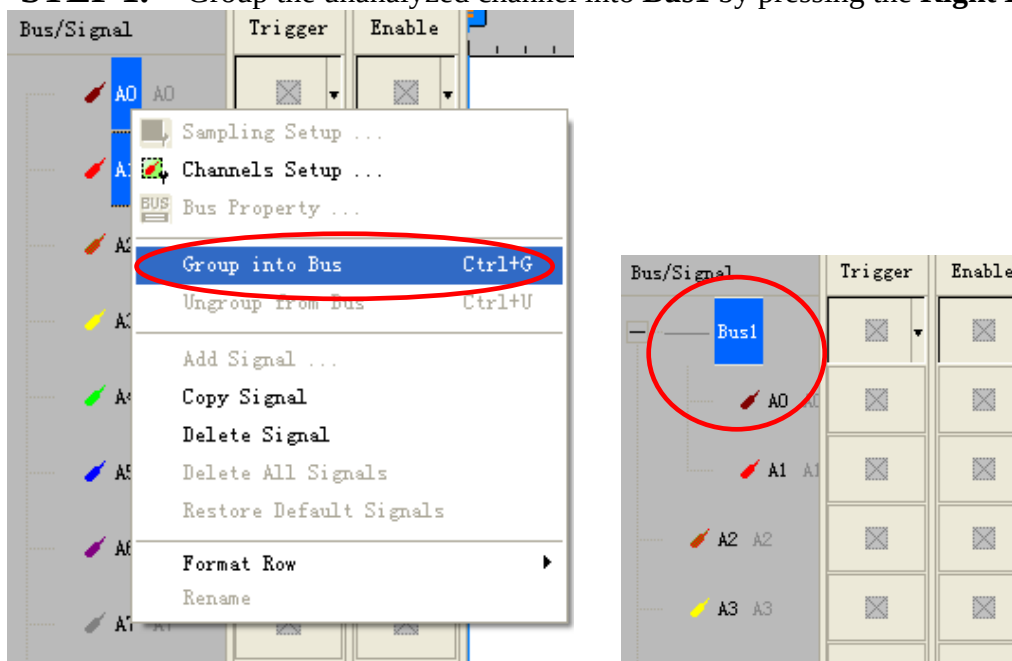


There is written ZeroPlus company information. If you have any questions about software operations, you can contact ZeroPlus by Telephone or Email.

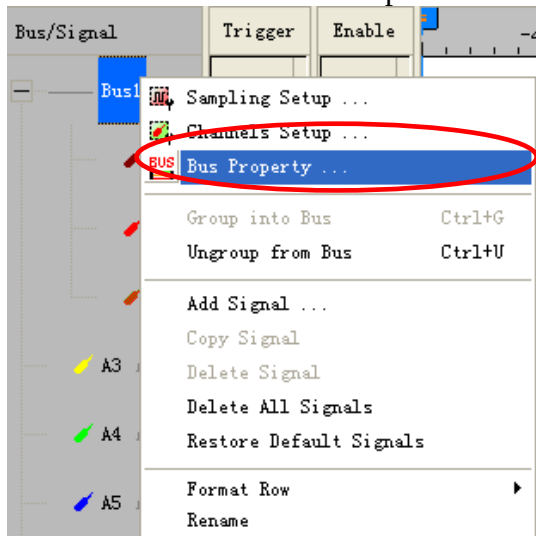


3 Operating Instructions

STEP 1. Group the unanalyzed channel into **Bus1** by pressing the **Right Key** on the mouse.

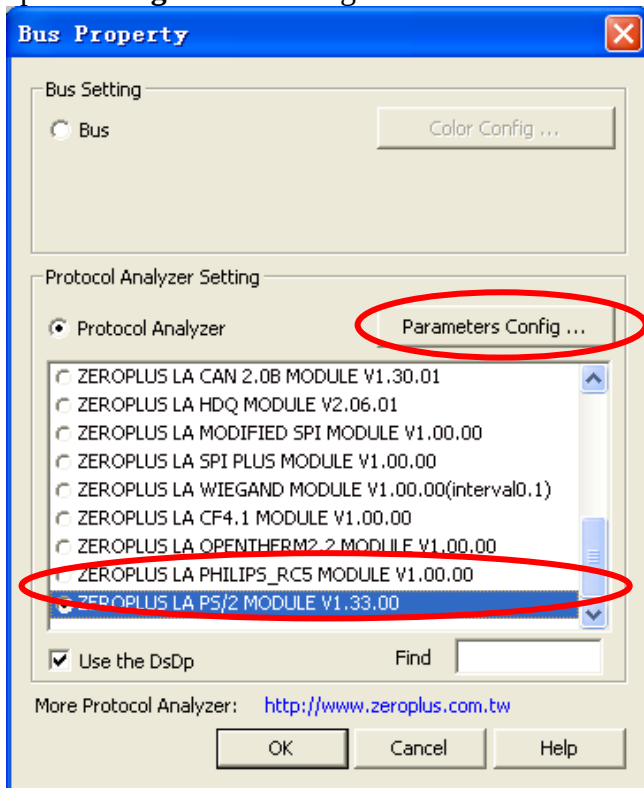


STEP 2. Select **Bus1**, and press **Right Key** on the mouse to list the menu, then press **Bus Property** or **Bus bar** on the toolbar to open **Bus Property** dialog box.

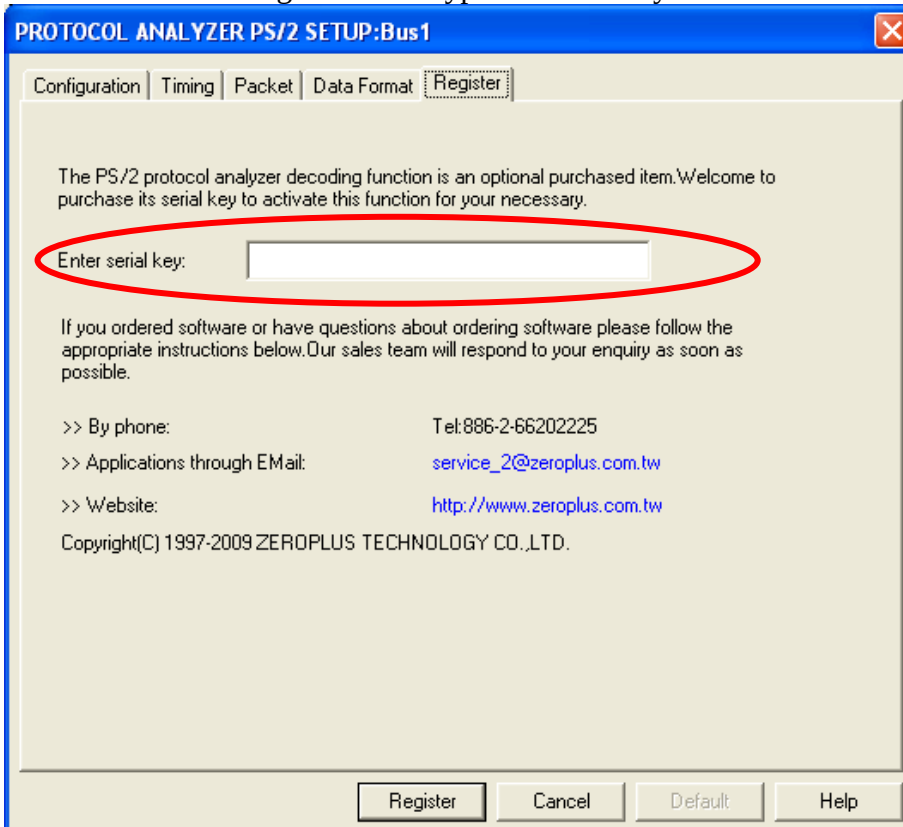




STEP 3. For Protocol Analyzer PS/2 Parameter Configuration, select Protocol Analyzer, and then choose **ZEROPLUS LA PS/2 MODULE V1.33.00**. Next click **Parameters Configuration** to open **Configuration** dialog box.

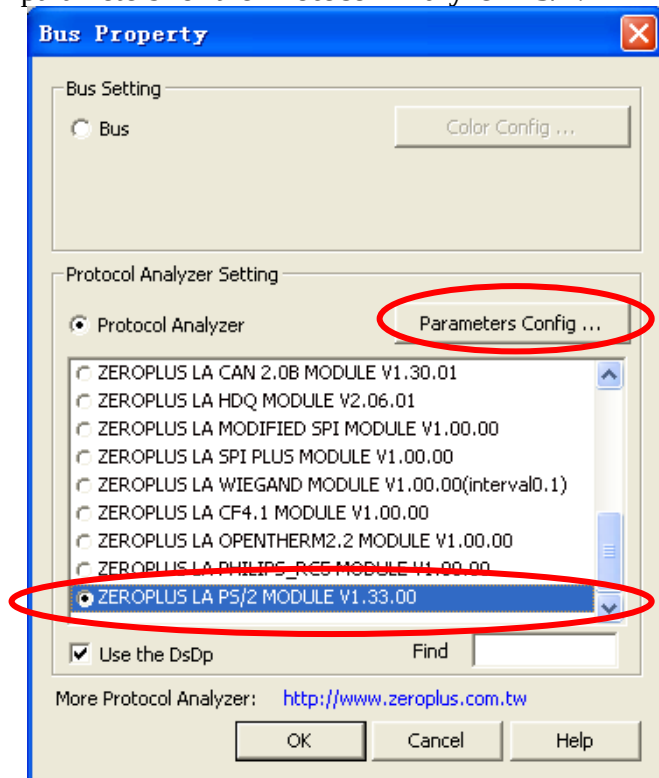


STEP 4. Press Register tab to type the serial key number of PS/2. Then, press **Register**.

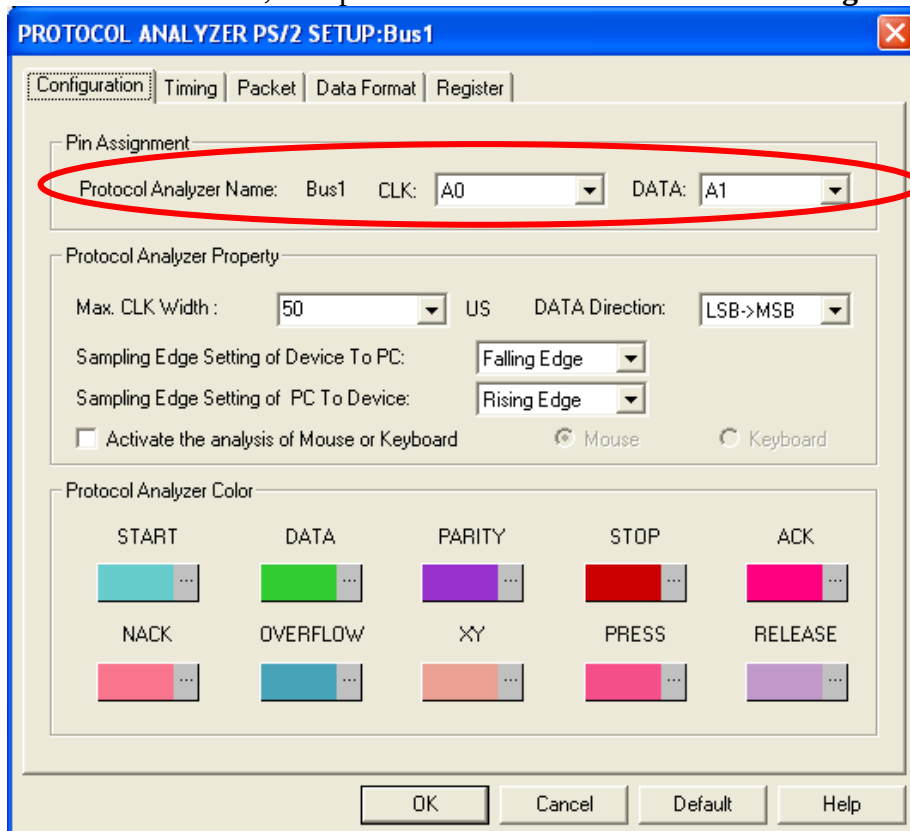




STEP 5. Click **Parameters Configuration** again, and open the configuration dialog box to set the parameters for the **Protocol Analyzer PS/2**.

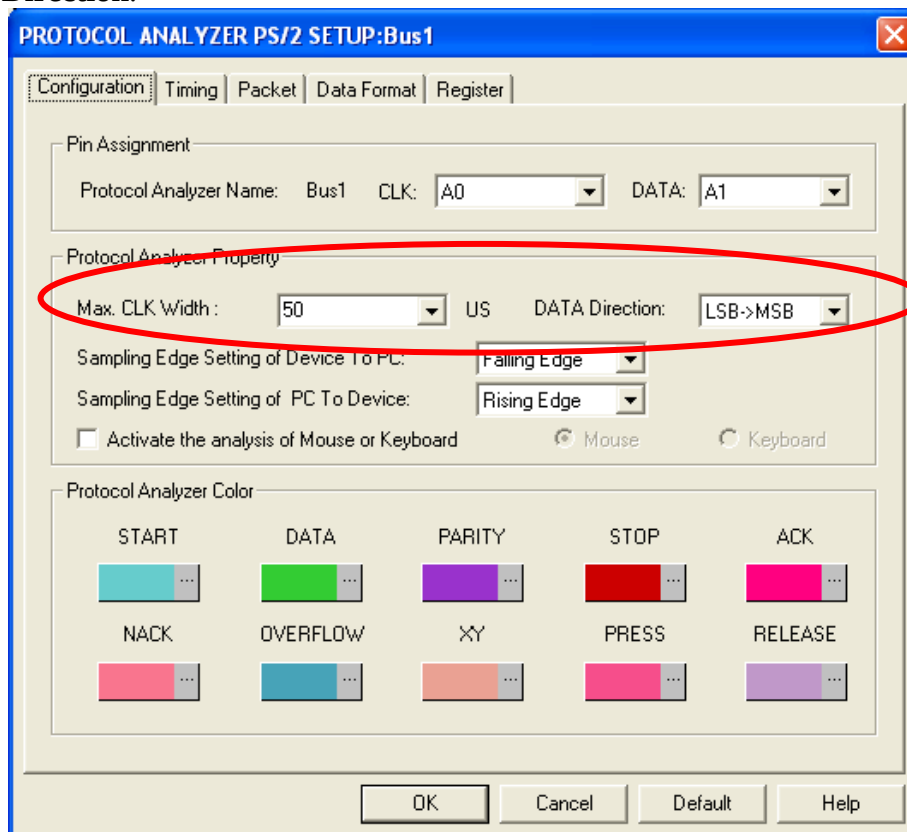


STEP 6. At first, set up the two channels for PS/2 in **Pin Assignment** section.

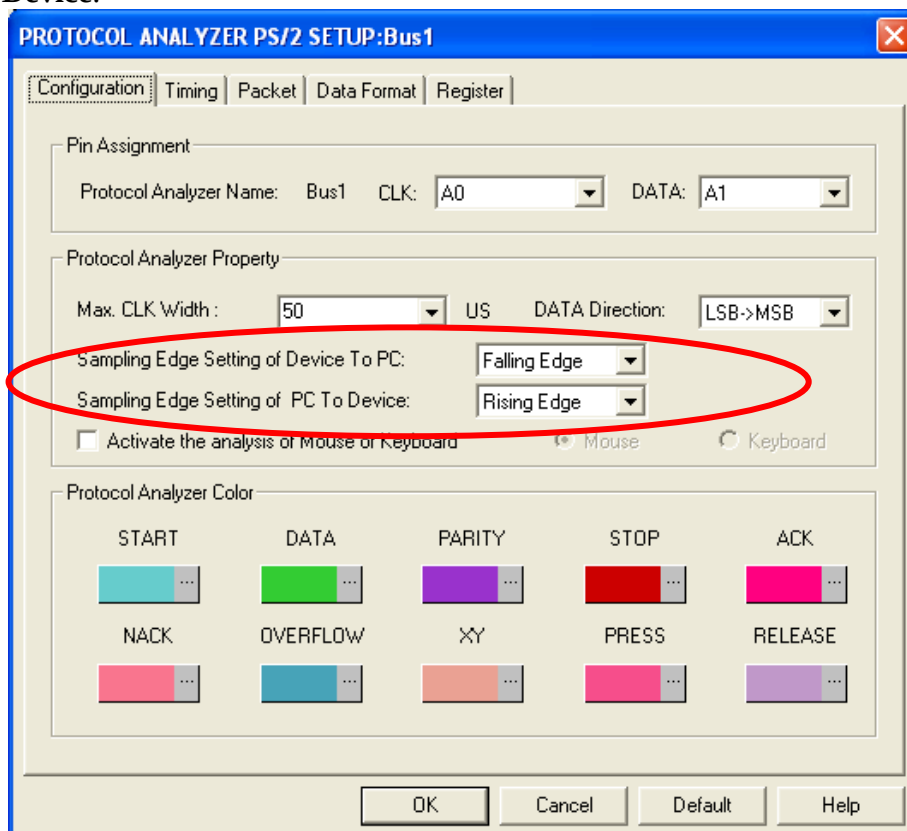




STEP 7. Set the **Protocol Analyzer Property**, which includes **Max. CLK Width** and **DATA Direction**.

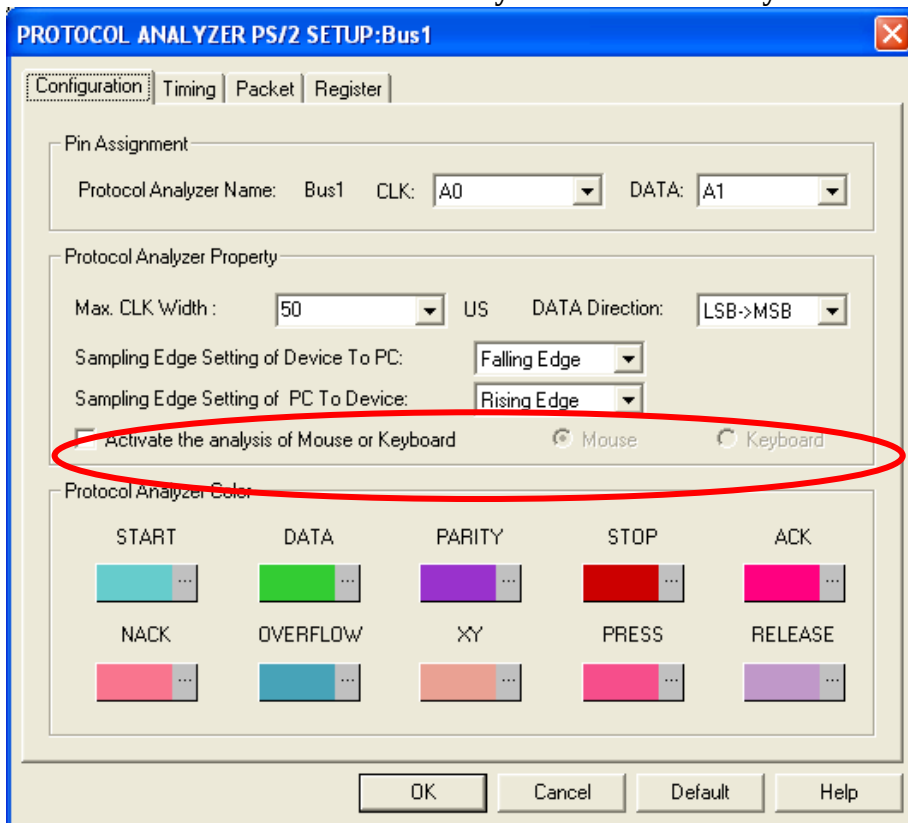


STEP 8. Set the **Sampling Edge Setting of Device to PC** and **Sampling Edge Setting of PC to Device**.

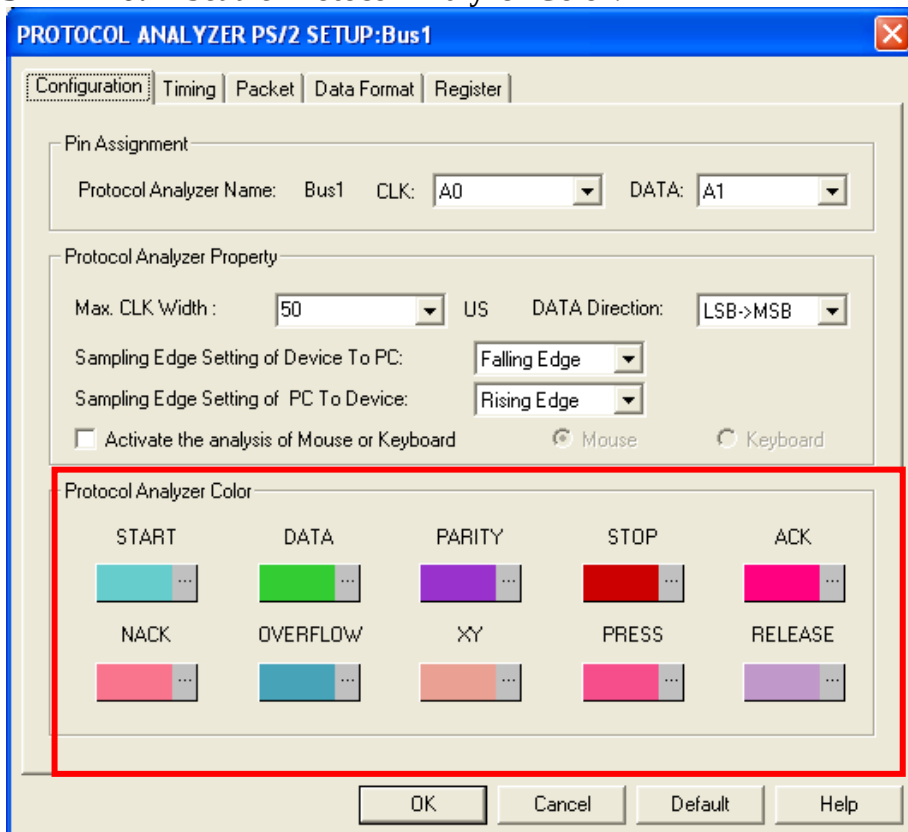




STEP 9. Set the Activate the analysis of Mouse or Keyboard.



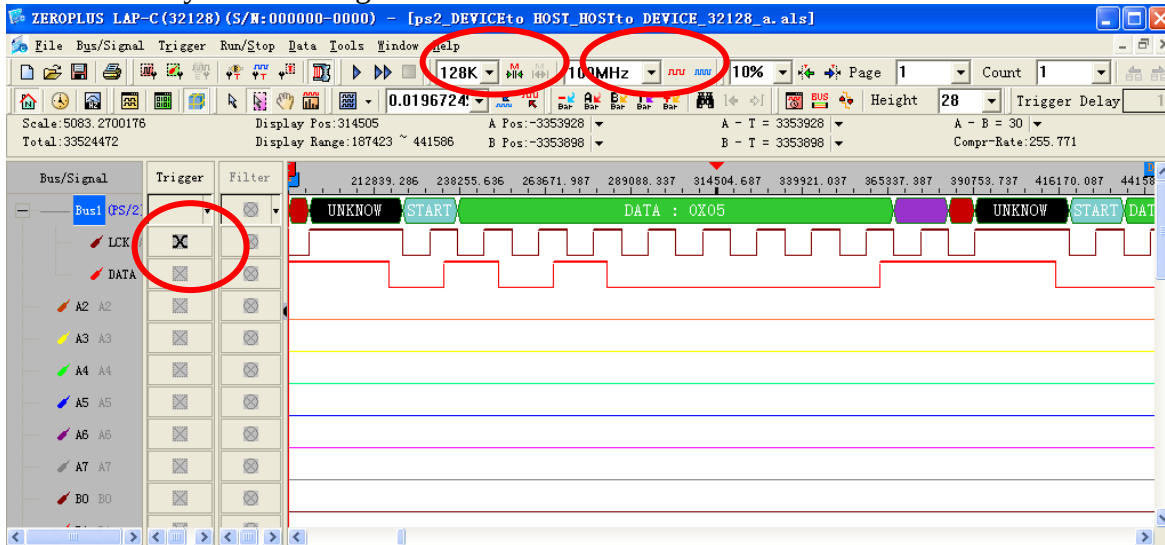
STEP 10. Set the Protocol Analyzer Color.



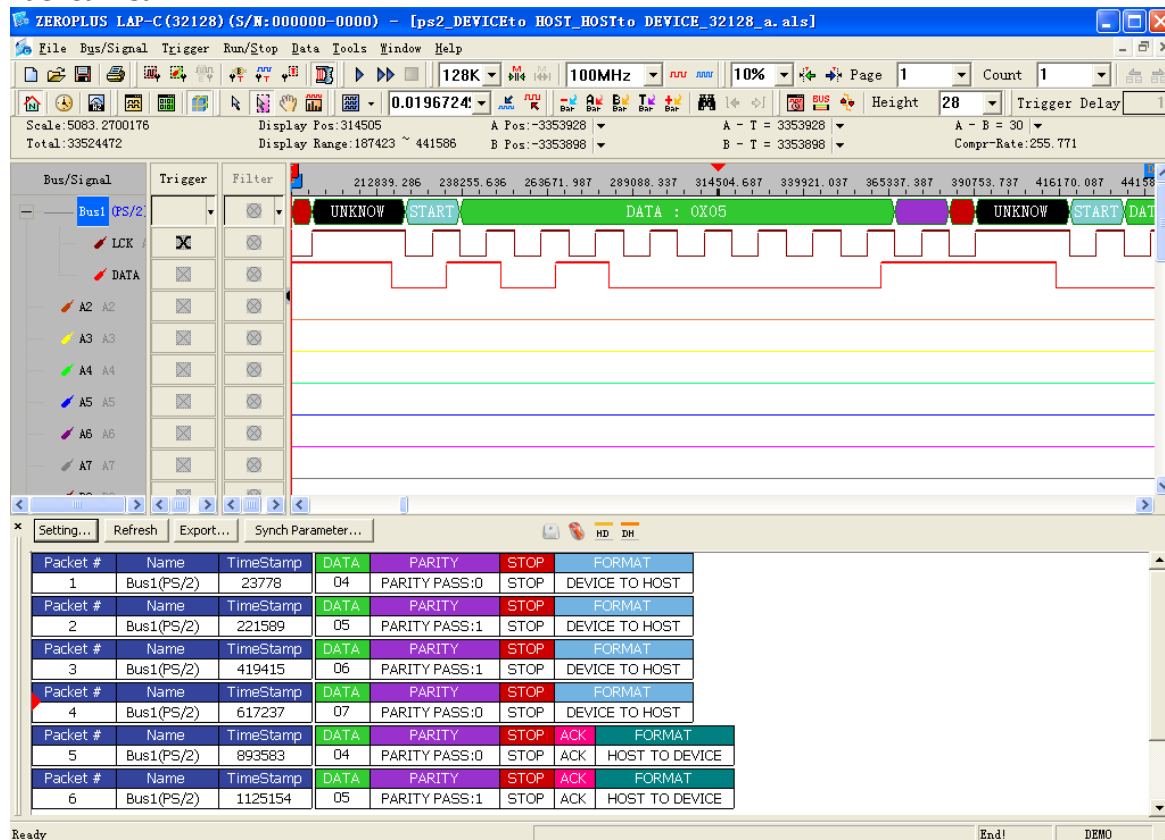


STEP 11. Following pictures show the completion of the protocol analyzer decoding and the packet list. The trigger condition is set as Either Edge; the memory depth is 128K; the sampling frequency is 100MHz.

Protocol Analyzer Decoding



Packet List



Support the function of Packet Format Select:

1. When pressing the Keyboard and Mouse Buttons, the decoding of the Keyboard and Mouse will be refreshed automatically and there is not necessary to set in the interface of the Protocol Analyzer.
2. When pressing the HOST TO DEVICE or DEVICE TO HOST Button, the corresponding packet will be displayed; when any of the two buttons isn't to be pressed, all the packets will be displayed.